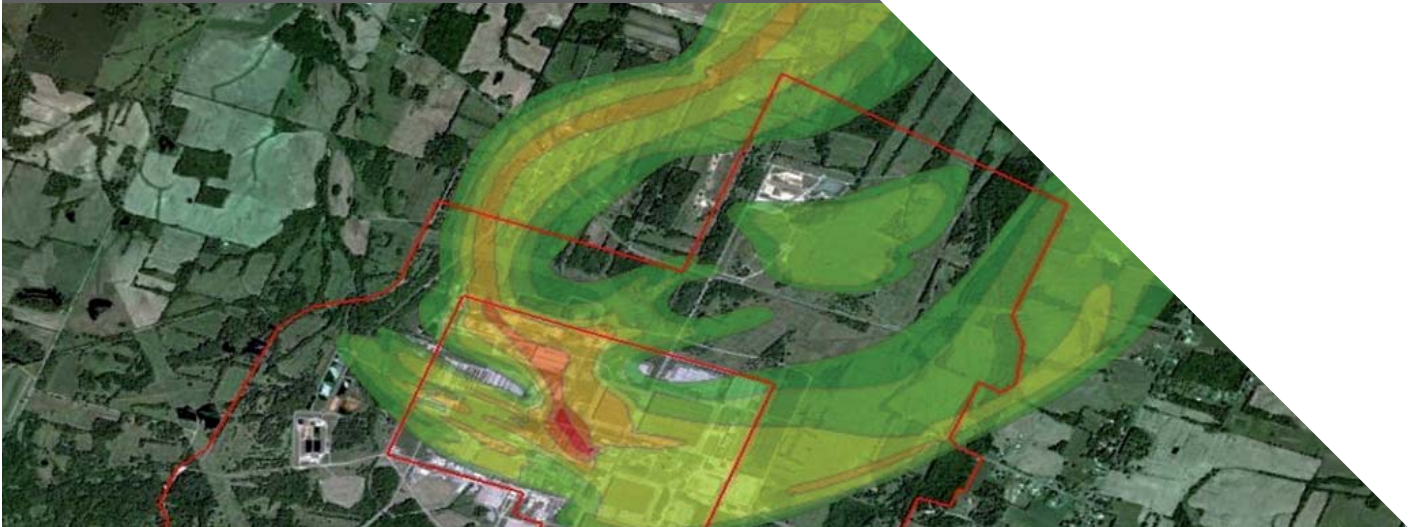


SERVICE SHEET

# ENVIRONMENT

## GROUNDWATER ASSESSMENT & MANAGEMENT



Fyfe's services in groundwater assessment and management are backed by extensive groundwater experience and have the overall objective of protecting and preserving this valuable resource.



# ENVIRONMENT

## GROUNDWATER ASSESSMENT & MANAGEMENT

Fyfe's Environmental team understands the importance of managing regional and urban groundwater resources. Water resource development, agricultural land use, acid sulphate soils, urban and commercial development, mining and plantation forestry can all threaten groundwater dependent ecosystems and, in some cases, human health.

The team's environmental scientists, environmental engineers and hydrogeologists are highly trained in monitoring and assessing groundwater, and offer expertise and capabilities in:

- Groundwater management plans
  - Network design for groundwater monitoring wells
  - Drilling supervision and monitoring well installation/development
  - Groundwater Monitoring Events (GMEs) including groundwater gauging and sampling
  - Contamination assessments
  - Physical, chemical and geochemical data collection, management and interpretation
- Aquifer tests including:
    - Pumping tests (constant-rate, step-drawdown and recovery)
    - Rising and falling head tests (slug tests)
    - Constant-head tests
  - Assessment of physical aquifer properties (transmissivity, hydraulic conductivity, storativity, specific yield and porosity)
  - 1 to 3 dimensional fate and transport groundwater modelling for remediation strategies and risk assessment
  - Water balance modelling
  - Groundwater remediation strategy design and implementation
  - Ongoing groundwater management

